MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2X2	2.95	1.00	-	11.80	4
		1X2	1.15	1.00	-	2.30	1
		1X2	0.60	1.00	-	1.20	4
		1X2	0.60	1.00	-	1.20	4
		1X2	0.90	1.00	-	1.80	4
						144.30 Sqm	

Cabinet 20-7-16

ಸಹಾಯಕ ಎಂಜಿನಿಯರ ಸಹಿ/ಶಿಕ್ಷಕ ಎಂಜಿನಿಯರ, ಸಾರ್ವಜನಿಕ ಲೋಕೋಪಯೋಗ ಇಲಾಖೆ

ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ ಸಹಿ

ಎಸ್.ಎಂ. ರಸ್ತೆ

1st and Final / 26-10-16

SBR 129/16-17

Job code :- 013-16-000012
Est. cost :- 10.00 lakhs

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 168876

Repairs and drains in ward no. 13, Shettyhalli Sub division.

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency..... Umesh H.C

AA.No:- EE/DD/AS/11/15-16, Dt. 04.01.2016
T.S.No:- EE/DD/TS/11/15-16, Dt. 04.07.2016
W.O.No:- EE/DD/WO/21/15-16, Dt. 24.03.16

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Date of recording :- 15-9-16						
①	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground mechanically (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50 mts lift upto 1.5 m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications complete as per the direction of Engineer-in-charge of the work. As per premeasurement 8th recorded in this MB Page No. 168887 vide item no. ① - i.e. @ Rate of 144.33/cum					351.79 cum = ₹ 50,773/-	

ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ ಸಹಿ

ಎಸ್.ಎಂ. ರಸ್ತೆ

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
②	Earthwork excavation for foundation of buildings, cubute water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits, trenches, stacking the excavated soil clear from edges of excavation with lead up to 50m, after breaking of clods complete as per the direction of Engineer-in-charge of work As per premeasurement Qty recorded in this MB page No. 168887 vide item No. ②. - i.e. @ Rate of 173.59/cum. - - -

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Reaffirmed - 2008, m/c mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars posts, struts, buttresses, string & facing courses, parapets, coping bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, Hom of machinery curing complete as per specifications, Engineer-in-charge of the work.						
	As per premeasurement Qty recorded in this MB Page No. 168888 vide Item No (5) . . i.e					25.35 cum	
	@ Rate of ~~63030.50~~ 5596.67/cum . . = ₹ 1,41,876/-						
(6)	Providing T.m.T steel reinforcement for R.C.C. works including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks, and wastage shall not be measured (Cost of materials, labour, Hom of machinery complete as per specifications						

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 168878

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per premeasurement Qty recorded in this MB Page No. 168888						
	vide Item No (4) - - ie - - -					1.33 Qtls	
	Qty limited to .					0.98 Qtl	
	@ Rate of 63030.50/Qtl - - - - = ₹ 61,770/-						
(7)	Providing and laying reinforced cement precast slabs of mix CC 1:1½:3 using 20mm & down size graded granite metal using HYSD 10mm dia steel @ 100mm C/C both ways & complete as per specification & as per direction of Engineer-in-charge						
	For damaged slabs pipe line	21 -	0.60	0.90		11.34	
		20 -	0.60	0.90		10.80	
		26 -	0.60	0.90		14.04	
		25 -	0.60	0.90		13.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Near Shanmukhathara Temple	16	0.60	1.20		11.52	
						61.20 Sqm	
				@ Rate ₹ 1600/Sqm			= ₹ 90,086/-
(8)	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the works, lead 3 Km.						
	As per Premeasurement Sts recorded in this MB page No 168900 vide item No. (7) . . ie					585.21 Cum	
				@ Rate ₹ 69.35/Cum			= ₹ 40,584/-
(9)	Providing and filling in foundation with granite/hap broken metal 40mm and down size with approved sand including hand packing, ramming, watering including cost of all materials, and labour with all lead & lift. complete as per the direction of Engineer-in-charge of the work						
	As per Premeasurement Sts recorded in this MB page No 168900 vide item No. (9) . . ie					20.36 Cum	
				@ Rate ₹ 2174.04/Cum			= ₹ 44,253/-

E.E. (D.D.)

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 168879

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Removing and resetting of kerb stones, complete as per specifications. complete as per the direction of Engineer-in-charge of the work.						
	As per premeasurement Sts recorded in this MB page No 168900 vide item No. (10) . . ie					280.00 Rmtrs	
				@ Rate ₹ 63.72/Rmtr . .			= ₹ 17,842/-
(11)	Providing flush pointing to square rubble, course & coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining. including cost of materials, labour during. complete as per the direction of Engineer-in-charge of the work.						
	As per premeasurement Sts recorded in this MB page No 168888 vide item No (11) . . ie					150.96 Sqm	
				@ Rate ₹ 99.36/Sqm . .			= ₹ 14,999/-

Ek+Re

5.10.2016

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಚಿಕ್ಕಪೇಟೆ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್. ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total Bill Amt		=₹9,83,124/-
							9,82,218=00
	certificate:						
	① The work done by contractor satisfactorily						
	② The contractor has removed all debris from worksp of						
	③ There is no departmental issues						
							15-9-16
	ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು						
	ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ						
	ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ						
	ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.						
	Audited and admitted for Rs. 982218=00						
	Passed by Cheque for Rs. 899447=00						
	(.....)						
	by adjustment for ..... 82771=00						
	Accounts Superintendent Exe. Engineer						
	B.P. Dasarahalli Division						

Serial No
Name of
Name of
Date of c

Date
1

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Pre-Measurements -

Job code:- 013-16-000012
Est. cost:- 10.00 lakhs

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 168887

Repairs to culverts and drains in ward no.13, Shettyhalli subdivision.

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency..... Umesh. H.C

A.A. No:- EE/DD/AS/11/15-16, Dt:04.01.16
T.S No:- EE/DD/TS/11/15/16, Dt. 04.01.16

Date of commencement of work.....

W.O. No:- EE/DD/WO/81/15-16 Dt 24.3.16

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Earthworks for surface excavation in ordinary soil, Approach roads	2×3	30.00	0.95	0.90	153.90	
		2×1	10.00	0.95	0.90	17.10	
		1	10.50	3.50	2.55	93.71	
		2×3	30.00	0.45	0.45	36.45	
		2×2	30.00	0.45	0.45	24.30	
		2×1	25.00	0.45	0.45	10.13	
		2×1	30.00	0.45	0.45	12.15	
		2×1	10.00	0.45	0.45	4.05	
						351.79 cum	
(2)	Earthworks excavation for foundation & buildings, culverts for culverts near Shanmughamudyl 2nd cross Jayanagara Opp. Ganesha temple Santhosh nagar, 2nd cross for earth wall Pipeline ready: Ra Shivananda Murthy	1	11.20	2.00	1.20	26.88	
		1	6.10	2.00	1.20	14.64	
		1	10.10	4.50	2.00	90.90	
		1	30.00	2.00	1.20	72.00	
		1	5.50	2.00	1.00	11.00	
		1	8.00	1.50	1.50	18.00	
						233.42 cum	

1-746

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(3)	Providing and laying in position P.C.C of mix M10.	1	11.20	2.00	0.15	3.36	
		1	6.10	2.00	0.15	1.83	
		1	10.00	4.50	0.15	6.75	
		1	30.00	1.00	0.15	4.50	
		1	5.50	2.00	0.15	1.65	
		1	8.00	1.50	0.15	1.80	
						19.89 cum	
(4)	Providing & constructing Culvert near Shanmukhatme temple granite, fine stone masonry in	2	11.20	0.75	0.40	6.72	
		2	11.20	0.60	0.80	10.75	
		2	6.10	0.60	0.80	5.86	
		2	10.10	1.20	0.40	9.70	
		2	10.10	0.90	0.40	7.27	
		2	10.10	0.75	0.50	7.58	
		2	10.10	0.60	0.40	4.85	
		1	7.50	0.75	0.60	3.38	
		1	7.50	0.60	0.80	3.60	
		1	28.00	0.75	0.40	8.40	
		1	28.00	0.60	0.40	6.72	
		2	5.50	0.60	0.70	4.62	
		1	8.00	0.75	0.50	3.00	
		1	8.00	0.60	1.00	4.80	
						87.23 cum	

Chd a Re
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು,

Ashley
4-7-16

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 168888

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11) (5) Extra item	Providing flush pointing	2	11.20		1.00	22.40	
		2	6.10		0.80	9.76	
		2	10.10		1.50	30.30	
		2	7.50		0.80	12.00	
		2	28.00		0.80	44.80	
		2	5.50		0.70	7.70	
		2	8.00		1.50	24.00	
						150.96 Sqm	
(6)	Providing T.M.T. steel reinforcement. 16mm ϕ	1×50	4.30	215.00	1.57	337.55	
	12mm ϕ	1×25	4.30	107.50	0.89	95.68	
	10mm ϕ	1×40	6.85	274.00	0.62	169.88	
	Culvert slabs 16mm ϕ	24×4	1.75	168.00	1.57	263.76	
	12mm ϕ	24×4	1.75	168.00	0.89	149.52	
	10mm ϕ	24×12	1.75	504.00	0.62	312.48	
					i.e.	1328.87 kgs 1.33 Qtls.	

Chd a Re
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು,

Ashley
4-7-16

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	Providing and laying in position reinforced cement concrete for culvert - coping vent - Near Shanmahatma temple						
		1 x 3	11.20	0.60	0.10	2.02	
		1 x 2	6.10	0.60	0.10	0.73	
		1 x 2	10.10	0.60	0.10	1.21	
		1 x 1	10.10	0.60	0.15	0.91	
		1 x 1	27.80	0.60	0.10	1.67	
		1 x 2	5.50	0.60	0.10	0.66	
		1 x 1	8.00	0.60	0.10	0.48	
	for culvert - Approach	1 x 2	11.20	0.60	0.15	2.02	
		1 x 2	6.10	0.60	0.15	1.10	
		1 x 2	6.85	0.60	0.15	1.23	
						12.03 cum	
	Deduct missed slabs	1 x 1	6.85	4.30	0.25	7.36	
		1 x 24	0.60	1.80	0.23	5.96	
						25.35 cum	

Clc vide

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಹಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

9/8/16

9-8-16